

| Ref # | Hits | Search Query                                  | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|---|---|------------------|---------|------------------|
| L1    | 9    | "4,796,646"                                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2005/06/07 17:09 |
| L2    | 1    | "4761273" and "2180006"                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2005/06/07 17:20 |
| L3    | 19   | "2180006"                                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2005/06/07 17:10 |
| L4    | 5    | 3 and hair                                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2005/06/07 17:10 |
| L5    | 33   | "1407659" or "2180006"                        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2005/06/07 17:15 |
| L6    | 8    | 5 and hair                                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2005/06/07 17:15 |
| L7    | 38   | "4761273"                                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2005/06/07 17:20 |
| L8    | 28   | 7 and (ampho\$10) and anionic<br>and cationic | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2005/06/07 17:28 |

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| L9  | 170 | one near monomer near5<br>(acrylamide or methacrylamide)<br>near5 substituted near5 nitrogen<br>near5 alkyl                                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 17:31 |
| L10 | 40  | one near monomer near5<br>(acrylamide or methacrylamide)<br>near5 substituted near5 nitrogen<br>near5 alkyl near100 carboxylic<br>near100 basic | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 17:32 |
| L11 | 37  | 10 and (cationic and anionic)<br>near1000 polymer   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 17:32 |
| L12 | 40  | 10 and (cationic and anionic)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 17:32 |
| L13 | 3   | 12 not 11   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 17:32 |
| L14 | 41  | monomer near5 (acrylamide or<br>methacrylamide) near5 substituted<br>near5 nitrogen near5 alkyl<br>near1000 carboxylic near1000<br>basic        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 17:33 |
| L15 | 42  | monomer near25 (acrylamide or<br>methacrylamide) near25<br>substituted near25 nitrogen<br>near25 alkyl near1000 carboxylic<br>near1000 basic    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 17:34 |
| L16 | 46  | monomer near25 (acrylamide or<br>methacrylamide) near25 nitrogen<br>near25 alkyl near1000 carboxylic<br>near1000 basic                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 17:34 |

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| L17 | 48   | (acrylamide or methacrylamide) near25 nitrogen near25 alkyl near1000 carboxylic near1000 basic                     | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/06/07 17:35 |
| L18 | 67   | (acrylamide or methacrylamide) near25 nitrogen near25 alkyl near1000 (acid or acidic or carboxylic) near1000 basic | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/06/07 17:36 |
| L19 | 54   | 18 and (cationic or anionic) near1000 polymer  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/06/07 17:35 |
| L20 | 2816 | (acrylamide or methacrylamide) near25 (nitrogen or n) near25 alkyl and (acid or acidic or carboxylic) and basic    | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/06/07 17:37 |
| L21 | 458  | 20 and hair  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/06/07 17:37 |
| L22 | 279  | 21 and (anionic and cationic) near1000 polymer   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/06/07 17:38 |
| L23 | 273  | 22 and ampho\$10   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/06/07 17:38 |
| L24 | 233  | 22 and ampho\$10 near1000 polymer  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/06/07 18:28 |

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| L25 | 190 | "3836537"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 18:15 |
| L27 | 20  | 24 and "a" near5 "b" near1000<br>basic near5 nitrogen   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 18:33 |
| L28 | 65  | 24 and (424/70.19 or 424/70.15<br>or 424/70.16 or 424/70.22 or<br>424/70.23 or 424/70.27 or<br>424/70.28 or 424/70.31 or<br>424/70.17 or 424/70.24 or<br>424/70.11) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 18:34 |
| S1  | 394 | amphomer  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 13:08 |
| S2  | 213 | S1 and (cationic and anionic and<br>(nonionic or non near ionic))<br>near1000 polymer   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 12:52 |
| S3  | 207 | S2 and hair   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 12:54 |
| S4  | 8   | S3 and (kajino or grollier or<br>boerwinkle).in.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 12:57 |
| S5  | 3   | "5254333" and kajino.in.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 12:57 |

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| S6  | 1   | "5254333" and amphomer     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 12:57 |
| S7  | 1   | "5089252" and amphomer     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 12:58 |
| S8  | 100 | "3836537" and amphomer     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 12:58 |
| S9  | 0   | "3836537".pn. and amphomer | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 12:58 |
| S10 | 0   | "5089252".pn. and amphomer | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 12:59 |
| S11 | 1   | "5089252" and amphomer     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 12:59 |
| S12 | 0   | "4796646" and amphomer     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 12:59 |
| S13 | 0   | "4796646" and amphomer     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 13:00 |

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| S14 | 1937 | N near alkyl near10 (acrylamide or methacrylamide)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 13:00 |
| S15 | 139  | S14 and (amphoter\$10 near100 polymer) and (cationic or anionic or nonionic or non near ionic) near100 polymer | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 13:02 |
| S16 | 138  | S14 and (amphoter\$10 near100 polymer) and (cationic or anionic) near100 polymer                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 13:07 |
| S17 | 117  | S14 and (amphoter\$10 near100 polymer) and (cationic and anionic) near100 polymer                              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 13:02 |
| S18 | 70   | S17 and hair   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 13:03 |
| S19 | 21   | S16 not S17  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 13:07 |
| S20 | 346  | S1 and hair  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 13:08 |
| S21 | 346  | S20 and (amphoter\$10 or ampho\$10)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 13:08 |

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| S22 | 342 | S21 not S16   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 13:09 |
| S23 | 4   | S21 and S16   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 13:09 |
| S24 | 263 | S22 and (cationic or anionic)<br>near1000 polymer       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 13:11 |
| S25 | 25  | "3,726,288"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 13:11 |
| S26 | 11  | "3,726,288" and (ampho\$10) and<br>(cation or anionic)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 13:13 |
| S27 | 1   | "3,726,288" and (ampho\$10) and<br>(cation and anionic) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 13:14 |
| S28 | 1   | "3,726,288" and (cation and<br>anionic)                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 13:14 |
| S29 | 13  | "3,726,288" and cationic                                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 13:28 |

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| S30 | 31  | "274086"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 13:15 |
| S31 | 11  | "3,726,288" and anionic   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 13:33 |
| S32 | 0   | S31 not S29   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 13:28 |
| S33 | 229 | amphomer and (cationic near1000 polymer) and anionic near1000 polymer | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 13:34 |
| S34 | 224 | S33 and (keratin\$10 or hair)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 13:34 |
| S35 | 221 | S33 and hair  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 13:51 |
| S36 | 71  | "2,383,660"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 13:52 |
| S37 | 7   | "2,383,660"   | EPO;<br>DERWENT   | OR | ON | 2005/06/07 13:54 |
| S38 | 16  | "4240450" or "4445521" or "4719099" or "5009880"                      | EPO;<br>DERWENT   | OR | ON | 2005/06/07 13:56 |
| S39 | 249 | "4240450" or "4445521" or "4719099" or "5009880"                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 13:57 |



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| S40 | 35  | S39 and (amphomer)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 13:58 |
| S41 | 164 | S39 and (amphomer or<br>ampho\$10) and cationic and<br>anionic  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 13:59 |
| S42 | 157 | S41 and hair  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 13:58 |
| S43 | 165 | S39 and (amphomer or<br>ampho\$10) and hair   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 13:59 |
| S44 | 130 | S43 and (amphomer or<br>((acrylamide or methacrylamide)<br>and ampho\$10))                                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 14:06 |
| S45 | 124 | S44 and (anionic and cationic)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 14:02 |
| S46 | 51  | S43 and (amphomer or<br>((acrylamide or methacrylamide)<br>near1000 ampho\$10)) and<br>cationic and anionic | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 15:34 |
| S47 | 14  | "5,254,333"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 15:27 |

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| S48 | 31   | "5,089,252"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 15:30 |
| S49 | 3768 | n near5 (ethylacrylamide or butylacrylamide or octylacrylamide or decylacrylamide or dodecylacrylamide)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 15:32 |
| S50 | 644  | S49 and hair  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 15:32 |
| S51 | 367  | S50 and (cationic and anionic) near1000 polymer   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 15:32 |
| S52 | 273  | S51 and (acrylic or methacrylic or cortonic or itaconic or maleic or fumaric) and (aminoethyl or butylaminoethyl or dimethylaminoethyl)           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 15:38 |
| S53 | 136  | S52 and (amphomer or ((acrylamide or methacrylamide) near1000 amphi\$10)) and cationic and anionic  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 15:39 |
| S54 | 452  | S49 near1000 (acrylic or methacrylic or cortonic or itaconic or maleic or fumaric) near1000 (aminoethyl or butylaminoethyl or dimethylaminoethyl) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 15:38 |
| S55 | 21   | S54 and (amphomer or ((acrylamide or methacrylamide) near1000 amphi\$10)) and cationic and anionic  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 15:56 |

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| S56 | 40  | S54 and (amphomer or ((acrylamide or methacrylamide) near1000 ampho\$10)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 15:56 |
| S57 | 106 | S54 and (amphomer or ampho\$10)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 15:56 |
| S58 | 69  | S54 and (amphomer or ampho\$10) and cationic and anionic                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 16:02 |
| S59 | 66  | "2,505,348"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 17:07 |
| S60 | 38  | "4761273"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/07 16:03 |